

Claims

We claim:

1. A door system associated with a power source, comprising:
5 a doorframe;
a door panel having a leading edge that is vertically movable in translation along the doorframe, wherein the leading edge has at least one end that can release from the doorframe for an applied force above a certain magnitude;
an antenna disposed adjacent to the leading edge and being vertically movable
10 in translation therewith;
a signal generator electrically coupled to the antenna, whereby the signal generator creates an electromagnetic field adjacent to the antenna; and
a releasable electrical connector selectively providing and interrupting an electrical path between the antenna and the power source, wherein the releasable
15 electrical connector interrupts the electrical path in reaction to the one end of the leading edge releasing from the doorframe.
2. The door system of claim 1, further comprising:
a track follower movably attached to the doorframe for vertical movement in
20 translation along the doorframe; and
a releasable mechanical connector that releasably couples the leading edge of the door panel to the track follower, wherein the signal generator is carried by the track follower.
- 25 3. The door system of claim 2, wherein the releasable electrical connector is operatively connected to the releasable mechanical connector, whereby the releasable electrical connector interrupts the electrical path in response to the releasable mechanical connector releasing the one end of the leading edge from the track
30 follower.

4. The door system of claim 2, wherein the releasable mechanical connector operates by virtue of magnetic attraction.
5. The door system of claim 1, wherein the signal generator is carried by the door panel.
6. The door system of claim 1, wherein the releasable electrical connector is interposed between the antenna and the signal generator.
7. The door system of claim 1, wherein the releasable electrical connector is interposed between the signal generator and the power source.
8. The door system of claim 1, wherein the door panel is a pliable curtain.
9. The door system of claim 1, wherein the door panel comprises a series of pivotally interconnected panel members.
10. A door system associated with a power source, comprising:
a doorframe;
a door panel having a leading edge that is vertically movable in translation along the doorframe, wherein the leading edge has one end that can release from the doorframe for an applied force above a certain magnitude;
an antenna disposed adjacent to the leading edge and being vertically movable in translation therewith;
a signal generator at a substantially fixed location; and
a flexible electrical connector that connects the signal generator to the antenna, whereby the signal generator creates an electromagnetic field adjacent to the antenna and the flexible electrical connector accommodates movement of the antenna relative to the substantially fixed location of the signal generator.

11. The door system of claim 10, further comprising:
a track follower movably attached to the doorframe for vertical movement in translation along the doorframe; and
a releasable mechanical connector that releasably couples the leading edge of the door panel to the track follower, wherein the flexible electrical connector accommodates movement of the leading edge relative to the track follower.
12. The door system of claim 10, wherein the door panel is a pliable curtain.
13. The door system of claim 10, wherein the door panel comprises a series of pivotally interconnected panel members.
14. A door system associated with a power source, comprising:
a doorframe;
a door panel having a leading edge that is vertically movable in translation along the doorframe, wherein the leading edge has one end that can release from the doorframe for an applied force above a certain magnitude;
an antenna disposed adjacent to the leading edge and being movable therewith;
a signal generator electrically coupled to the antenna, whereby the signal generator creates an electromagnetic field adjacent to the antenna; and
a wire providing an electrical path between the antenna and the power source and having a rotatable feature that accommodates movement of the antenna.
15. The door system of claim 14, further comprising a rotatable drum, wherein the door panel wraps about the drum as the door panel moves to an open position, and the rotatable feature is the wire being able to wrap around the drum as the door panel moves to the open position.
16. The door system of claim 15, wherein the rotatable drum is hollow with the wire extending therethrough, and the rotatable feature further includes the wire being able to twist about itself within the rotatable drum as the door panel moves to the open position.

17. The door system of claim 14, wherein the wire includes a rotatable electrical connector that provides the rotatable feature of the wire.
18. The door system of claim 17, wherein the rotatable electrical connector is
5 interposed between the antenna and the signal generator.
19. The door system of claim 17, wherein the rotatable electrical connector is interposed between the signal generator and the power source.
- 10 20. The door system of claim 14, wherein the signal generator is attached to the door panel.
21. The door system of claim 14, wherein the signal generator is at a substantially fixed location.